

Aquaflair TRAC/F/H range

Air-cooled water chillers, free-cooling chillers and
and heat pumps with axial fans for outdoor
installations

115-350kW



the Technological Response for Any Conditions

- > Cooling capacity (C): 115 ÷ 350 kW
- > Cooling capacity (F): 120 ÷ 370 kW
- > Heating capacity (H): 129 ÷ 285 kW

- > Basic version
- > UltraQuiet version

- > Refrigerant R-410A
- > Scroll compressors

Features and benefits

Energy Efficiency

The use of leading technology enables to optimize the unit operation at any load or ambient conditions, guaranteeing an extremely low power consumption.

- > R410A refrigerant
- > Tandem scroll compressors
- > Electronically Commutated motor fans (opt.)
- > Electronic Expansion Valve (opt.)
- > Integrated free-cooling system (TRAF)
- > Integrated glycol-free system (TRAF)



Continuous Availability

Units are designed for to ensure continuous operation and reliability in any mission-critical applications.

- > Wide ambient temperature range, up to 50°C
- > Double power supply with automatic commutation (ATS) for complete redundancy without single point of failure, as per TIER III&IV recommendations (opt.)
- > Complete monitoring and control system to guarantee unit protection and reliability
- > Amperage and Energy monitoring (opt.)
- > Continuous monitoring of the refrigerant charge (opt.)



Wide configurability

A complete set of configurable options is available to match any customer needs.

- > Onboard pumps group (1 or 1+1) with or without inverter
- > Onboard water tank
- > Different Noise impact versions
- > Soft start for compressors
- > Electronically Commutated motor fans
- > Integrated refrigerant leak detector
- > Energy meter



Uniflair™ TRAC/TRAH/TRAF		1221A	1421A	1742A	2042A	2342A	2642A	2942A	3642A	4042A
Power supply	V/ph/Hz	400/3/50								
Circuits/compressors	nr.	1/2	1/2	2/4	2/4	2/4	2/4	2/4	2/4	2/4
Fans	nr.	2	2	3	3	4	4	5	5	6
Evaporator type	nr. x type	1 x Plate								
TRAC										
Cooling capacity (1a) / (1b)	kW	115 / 118	127 / 132	157 / 161	183 / 188	215 / 220	236 / 243	262 / 269	302 / 312	345 / 355
Absorbed power (1a) / (1b)	kW	42,6 / 41,8	46,6 / 45,5	56,1 / 55,6	66 / 64,5	72,3 / 71,5	81,7 / 80,2	91,4 / 90,4	103 / 101	117, / 115
TRAH										
Heating capacity (3a) / (3b)	kW	120 / 122	134 / 137	171 / 175	193 / 198	227 / 233	246 / 253	275 / 281	322 / 330	362 / 372
Absorbed power (3a) / (3b)	kW	43,0 / 40,3	54,3 / 43,7	62,6 / 55,4	72,3 / 63,7	79,2 / 73,9	87,0 / 80,7	97,7 / 88,8	110,0 / 99,7	122, / 112,6
TRAC - UltraQuite version										
Cooling capacity (1a) / (1b)	kW	109 / 111	121 / 123	151 / 153	174 / 177	207 / 209	225 / 228	252 / 255	288 / 292	329 / 333
Absorbed power (1a) / (1b)	kW	44,5 / 43,7	49,3 / 48,3	58,1 / 57,2	69,3 / 67,8	74,8 / 73,5	85,5 / 83,7	94,6 / 93,0	108 / 106	122, / 119
TRAF										
Cooling capacity (7a) / (7b)	kW	122 / 126	136 / 141	167 / 172	194 / 200	226 / 233	248 / 256	277 / 286	317 / 331	356 / 371
Absorbed power (2a) / (2b)	kW	44,2 / 43	48,6 / 46,9	58,2 / 57,1	68,3 / 66,2	76,6 / 74,9	87 / 84,2	97,4 / 95,1	110 / 107	126 / 122
Free-cooling duty (8a) / (8b)	kW	78 / 87	80 / 89	121 / 134	126 / 140	170 / 191	175 / 198	218 / 245	223 / 254	244 / 279
TRAF - UltraQuiet version										
Cooling capacity (7a) / (7b)	kW	117 / 118	129 / 130	161 / 162	185 / 187	216 / 218	234 / 238	262 / 266	299 / 303	336 / 342
Absorbed power (2a) / (2b)	kW	46,6 / 45,8	51,8 / 50,9	60,5 / 59,5	72,2 / 70,9	80,5 / 78,7	92,7 / 90,6	102 / 99,9	118 / 115	134 / 130
Free-cooling duty (8a) / (8b)	kW	68 / 68	69 / 69	105 / 105	108 / 107	144 / 144	147 / 147	185 / 185	186 / 185	203 / 203
Noise pressure level (4)										
Basic version	dB(A)	53,3	53,4	56,8	56,8	57,5	57,6	56,8	59,0	59,0
UltraQuiet version	dB(A)	50,7	50,8	54,3	54,3	54,8	54,9	54,3	56,4	56,4
Dimensions										
Height	mm	2215	2215	2215	2215	2215	2215	2135	2135	2135
Depth	mm	3162	3162	4612	4612	5562	5562	5730	5730	5730
Width	mm	1151	1151	1151	1151	1151	1151	2204	2204	2204

1. Data refer to nominal conditions: water temperature 12/7°C, external temperature 35°C, R410A refrigerant, fouling factor 0.0 m²C/W, (a) AC fans (b) EC fans
2. Data refer to total absorbed power (compressors and fans) ,(a) AC fans (b) EC fans
3. Data refer to nominal conditions: water temperature 40/45 °C, external temperature 7°C dry bulb, 6°C wet bulb, R410A refrigerant, fouling factor 0.0m²C/W, (a) AC fans (b) EC fans
4. Data measured in free field at 10 meters from the unit operating without pump at nominal conditions, coil side, Q=2 directional factor. At different conditions, with different configurations and/or with EC fans, noise values may vary
5. European seasonal energy efficiency ratio, (a) AC fans (b) EC fans
6. Integrated Partial load value, (a) AC fans (b) EC fans
7. Data refer to nominal conditions: water temperature 10/15 °C, external temperature 35 °C, R410A refrigerant, fouling factor 0.0m²C/W, glycol 20%, (a) AC fans (b) EC fans
8. Data refer to nominal conditions: inlet water temperature 15 °C, external temperature 5 °C, glycol 20%, fouling factor 0.0m²C/W, (a) AC fans (b) EC fans

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